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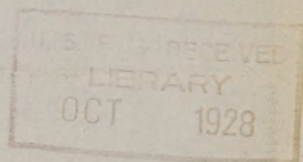
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FOREST PRODUCTS RESEARCH IN PICTURES

NO. 72

**STRONG CORNERS NEEDED EVEN
ON WELL BRACED CRATES**



**FOREST PRODUCTS LABORATORY
U. S. FOREST SERVICE
MADISON, WISCONSIN**

The type of engine crate shown here at the top failed at the corners after an average of only 7 drops in the box testing drum at the Forest Products Laboratory, in spite of having braces on 5 sides and sufficient rigidity in the 600-pound dummy load bolted to the sixth side to make a brace there unnecessary. The crate shown at the bottom carried the same weight of contents as the one above and was braced in the same manner, but its corners were of the "3-way" type with all nails driven into side grain. This type of crate, withstood an average of 62 drops, or nearly 9 times as much rough handling as the other type.

*Photographs by Forest Products Laboratory,
U. S. Forest Service*

